Kandula Srinivasa Reddy Memorial College of Engineering (Autonomous)

Kadapa-516003. AP

(Approved by AICTE, Affiliated to JNTUA, Ananthapuramu, Accredited by NAAC)

(An ISO 9001-2008 Certified Institution)

Department of Civil Engineering



Certification Course

On

INTEGRATED WATERSHED MANAGEMANT

Resource person

: Dr. T. Kiran Kumar,

Professor, Dept. Civil Engg., KSRMCE

Coordinators

: Dr. P. Kishore Kumar Reddy

Associate Professor, Dept. Civil Engg., KSRMCE

Date

: 25/03/2022 to 18/05/2022



(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India-516 003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

An ISO 14001:2004 & 9001: 2015 Certified Institution

Lr./KSRMCE/CE/2021-22/

Date: 18-03-2022

From

Dr. P. Kishore Kumar Reddy, Associate Professor. Dept. of Civil Engineering, KSRMCE, Kadapa.

To The Principal, KSRMCE, Kadapa.

Sub: Permission to Conduct Certificate Course – Reg.

Respected Sir,

The Department of Civil Engineering is planning to offer a certification course on "Integrated Watershed Management" for B. Tech. students of KSRMCE. The course will start on 25th March, 2022 and will run for one-month duration. In this regard, I am requesting you to accept the proposal to conduct certification course.

Thanking you Folial ded to Phingpal Six

Yours faithfully

(Dr. P. Kishore Kumar Reddy)

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Cr./KSRMCE/CE/2021-22/

Date: 18/03/2022

Circular

The Department of Civil Engineering is offering a certification course on "Integrated Watershed Management". The course will start on 25-03-2022 in seminar hall, Department of Civil Engineering. In this regard, interested students of KSRMCE are required to register for the Certification Course. The students are instructed to contact the course coordinator for registration.

The Course Coordinator Dr. P. Kishore Kumar Reddy, Associate Professor, Dept. of Civil Engineering, KSRMCE, Kadapa.

Cc to:

IQAC-KSRMCE

Registration form for "Certification course on Integrated watershed management"

Resource person : Dr. T. Kiran Kumar, Professor, CED, KSRMCE

Coordinator : Dr. P. Kishore Kumar Reddy, Associate Professor, CED, KSRMCE

Date : From 25/03/22 to 18/05/22

reddysrinu@ksrmce.ac.in Switch account



Your email will be recorded when you submit this form

* Required

Student Roll No. *

Your answer

Student Name *

Your answer

Mail ID *

Your answer

Submit

Clear form

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This form was created inside of KSRM College of Engineering. Report Abuse







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Department of Civil Engineering

Registration list of Certification course

on

INTEGRATED WATERSHED MANAGEMENT

SI. No. Student Roll No. Student Name Mail ID 1 199Y1A0102 Sampurna Rani Bollavaram 199Y1A0102@ksrmce.a 2 199Y1A0103 Suryanarayana Byrisetty 199Y1A0103@ksrmce.a 3 199Y1A0106 Haritha Chinamadula 199Y1A0106@ksrmce.a 4 199Y1A0107 Arun Kumar Dantham 199Y1A0107@ksrmce.a 5 199Y1A0108 Anusha Dhamerla 199Y1A0108@ksrmce.a 6 199Y1A0109 Chennakeshava Dirasantha 199Y1A0109@ksrmce.a 7 199Y1A0112 Suneel Giddaluru 199Y1A0112@ksrmce.a 8 199Y1A0115 Faheem Hachhulukatte 199Y1A0115@ksrmce.a 9 199Y1A0116 Venkata Sai Janapati 199Y1A0116@ksrmce.a 10 199Y1A0118 Chaitanya Kanta 199Y1A0119@ksrmce.a 11 199Y1A0119 Vekrishna Yadav Katuboina 199Y1A0120@ksrmce.a 12 199Y1A0122 Nagarathna Kumbhagiri 199Y1A0122@ksrmce.a 14 199Y1A0123 Veera Sai Kumar Reddy Lomati 199Y1A0123@ksrmce.a	
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3 199Y1A0106 Haritha Chinamadula 199Y1A0106@ksrmce.a 4 199Y1A0107 Arun Kumar Dantham 199Y1A0107@ksrmce.a 5 199Y1A0108 Anusha Dhamerla 199Y1A0108@ksrmce.a 6 199Y1A0109 Chennakeshava Dirasantha 199Y1A0109@ksrmce.a 7 199Y1A0112 Suneel Giddaluru 199Y1A0112@ksrmce.a 8 199Y1A0115 Faheem Hachhulukatte 199Y1A0115@ksrmce.a 9 199Y1A0116 Venkata Sai Janapati 199Y1A0116@ksrmce.a 10 199Y1A0118 Chaitanya Kanta 199Y1A0118@ksrmce.a 11 199Y1A0119 Vekrishna Yadav Katuboina 199Y1A0119@ksrmce.a 12 199Y1A0120 Kejiya Kola 199Y1A0120@ksrmce.a 13 199Y1A0122 Nagarathna Kumbhagiri 199Y1A0122@ksrmce.a	c.in
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Resource person

Coordinator

HOD-Civil Engg.

Head
Department of Civil Engineering
K.S.R.M. College of Engineering
(Autonomous)
KADAPA 516 003. (A.P.)

CERTIFICATE COURSE ON INTEGRATED WATERSHED MANAGEMENT

Pre-requisites: Engineering Hydrology.

Course Outcomes: After completion of the course, student will be able to

CO1: To Understand the necessity of management of natural resources and their Objectives.

CO2: Identify the causes of soil erosion

CO3: Plan and design soil conservation measures in a watershed

CO4: Plan and design water harvesting and groundwater recharging structures

CO5: Plan measures for reclamation of saline soils

Detailed Syllabus:

- 1. Introduction, concept of watershed, need for watershed management, concept of sustainable development, Hydrology of small watersheds.
- 2. Principles of soil erosion, causes of soil erosion, types of soil erosion, estimation of soil erosion from small watersheds, Control of soil erosion, methods of soil conservation structural and non-structural measures.
- 3. Principles of water harvesting, methods of rainwater harvesting, design of rainwater harvesting structures.
- 4. Artificial recharge of groundwater in small watersheds, methods of artificial recharge.
- 5. Reclamation of saline soils, Micro farming, biomass management on the farm.

TEXT BOOKS:

- 1. Chatterjee, S. N., Water Resources Conservation and Management, Atlantic Publishers, 2008.
- 2. Murthy, V.V.N., Land and Water Management, Khalyani Publishers, 2004.
- 3. Muthy, J. V. S., Watershed Management, New Age International Publishers, 1998.
- 4. Suresh Rao, Soil and Water Conservation Practices, Standard Publishers, 1998.

Department of Civil Engineering K.S.R.M. College of Engineering (Autonomous) KADAPA 516 003. (A.P.)

V. S. S. MW/9

PRINCIPAL

KS.R.M. COLLEGE OF ENGINEERING

KADAPA - 516 003. (A.P.)



(UGC-AUTONOMOUS)

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Department of Civil Engineering

Certification course

on

"INTEGRATED WATERSHED MANAGEMENT"

Date	Timing	Course Instructor	Topic to be covered
25/03/22	4 PM to 6 PM	Dr. T. Kiran Kumar	Discuss about objectives, outcomes,
			Importance.
26/03/22	4 PM to 6 PM	Dr. T. Kiran Kumar	Introduction about Watershed
			management, Need for watershed
			management
28/03/27	4 PM to 5 PM	Dr. T. Kiran Kumar	CHAPTER-1: Concept of sustainable
			development
29/03/22	4 PM to 6 PM	Dr. T. Kiran Kumar	Hydrology small watershed
31/03/22	4 PM to 5 PM	Dr. T. Kiran Kumar	CHAPTER-2: Soil erosion, causes of soil
			erosion
06/04/22	4 PM to 6 PM	Dr. T. Kiran Kumar	Estimation of soil conservation
08/04/22	4 PM to 6 PM	Dr. T. Kiran Kumar	Structural and Non-Structural measures
13/04/22	4 PM to 6 PM	Dr. T. Kiran Kumar	CHAPTER-3: Principle of water
			harvesting, Methods of Rain water
			harvesting.
05/05/22	4 PM to 5 PM	Dr. T. Kiran Kumar	Design of rain water harvesting
06/05/22	4 PM to 5 PM	Dr. T. Kiran Kumar	CHAPTER-4: Artificial recharge of ground
			water in small watershed
08/05/22	4 PM to 5 PM	Dr. T. Kiran Kumar	Methods of artificial recharge
09/05/22	4 PM to 5 PM	Dr. T. Kiran Kumar	CHAPTER-5: Saline soil, Water logging
10/05/22	4 PM to 5 PM	Dr. T. Kiran Kumar	Micro Irrigation
11/05/22	4 PM to 5 PM	Dr. T. Kiran Kumar	Bio-Mass management
13/05/22	4 PM to 6 PM	Dr. T. Kiran Kumar	Review of certification course
14/05/22	9 PM to 1 PM	Dr. T. Kiran Kumar	Field visit
14/05/22	2 PM to 6 PM	Dr. T. Kiran Kumar	Field visit
18/05/22	4 PM to 5 PM	Dr. T. Kiran Kumar	Examination

Instructor:

Coordinator: Plant

Department of Civil Engineering

Attendance sheet of Certification course on "INTEGRATED WATERSHED MANAGEMENT"

Sl. No	ROLL NUMB ER	STUDEN TNAME	25/ 03	26/ 03	28/ 03	29/ 03	31/ 03	6/ 04	8/	13/ 04	05/ 05	06/ 05	08/ 05	09/ 05	10/ 05	11/ 05	13/ 05	14/ 05	14/ 05	18/ 05
1	199Y1A0102	Sampurna Rani Bollavaram	Para	(au	Soul	a	a	98.	a	seret	6	South	Sher	a	Say	6	Soul	gar.	Sour	a
2	199Y1A0103	Suryanarayana Byrisetty	BOLL	BL	BSJ	18 SI	BISK	BOL	894	BOST	R. Sp	Relian	BOSA	Bla	BOST	Ble	18 Sef	Ble	80ge	Ble
3	199Y1A0106	Haritha Chinamadula	Marito	Mastr.	a	Mosto	040	a	Harel	40500	Milli	a	Katu	-thousand	Heather	Pasito	2	Theelin	Mestro	Hearto
4	199Y1A0107	Arun Kumar Dantham	Luz	a	fing	Aon	Ann	Aon	Avy	Am	Aon.	Jones	Aru	Aren	Ava	Arex	Son	Aug	Day	Any
5	199Y1A0108	Anusha Dhamerla	BASIL .	DAGE	DAM	DAOW	DAGO	Ma	DAG	DANG	000	Dente	PAUL	DAN	DAM	DAM	DAW.	DAresto	DANG	DAN
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8	199Y1A0115	Faheem Hachhulukatte	pubus.	foly	Jakay	Lulies	falen	foles	false	fahr	foles	fole	falz	bah	balez	fala	bolon	bake	folio	folicas
9	199Y1A0116	Venkata Sai Janapati	Jusa	Jud	Jusi	guesa	Juni	fija	a	2	Just	Lugar	Just .	Lusei	fizi	Just	Just	fore	fuser'	Juse
10	199Y1A0118	Chaitanya Kanta	a	a	clar	chatage	Joetanya	doctany	Loutaye	divitage	chaitange	dietaye	Cottons	dataya	Chaiteye	choithge	chaitange	daitary	clockany	a
11	199Y1A0119	Vekrishna Yadav Katuboina	Rosel	Cyade	Rugal	a	Beyer	Poyed	Pa.	Ryader	Ryade	Reyed	Pryede	Byedi	Rujuka	Fryal	Ryadi	Kypeld	Rysch	Payado
12	199Y1A0120	Kejiya Kola	Kerr	Kejiya	Kejiya	Kejiya	kejiya	Kejip	kejye	Kofiyer	2	Kejiya	kgiya	reig	KES S	kgiya	Kejiya	Kejiga	rgiye	kejiyer.
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15	199Y1A0127	Yagna Priya Moram	a	yegre	yggra	yagua	yagna	a	ygna	yagna	yagna	apyre	yagna	yogna	cogna	yagna	upgna	j agra	yogna	yogner.
16	199Y1A0131	Harsha Vardhan Mundlapati	Anh	Holde	Hoph	y ash	Hot	Jeh	Hb	HA	14	W	He	14	Alf	th	Hash	Hoh	HA	Hose

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199Y1A0160	Rajesh Reddy Sreereddy	periel	Regard	Rist	pajet	a	- Paris	Pajed	1	Rafel	Diget	^ · k	0 - 1	1		1	-	^	Roger
199Y1A0162	Mohammed Junaid Syed	WSM	MÀ	M	NS	My	MY	Mi		mi	Mei	mj	, 0	mis	0	Mi	0		mis
199Y1A0164	Anil Kumar Reddy Thummala	TAI	TAil	N. A.	TAN	TAIL	TAN	10	- 01	-	- "	(Ail	TAI	T. Ail	T.Ail	T.Ail	T.Ail		Touil
199Y1A0167	Chandrasekhar Vadde	a	Charle	March	Chart	(hord	Chock	Clord	Rade	Chede	Hert	harde	chord	Mords	Nach	ches	Chans	brilan	Cloar
199Y1A0168	Shaik Fayaz Hussain Vanipenta	Janes -	Loyes	fayers	layes	Joyers	fogs	Ayr	Bayes	Jeypez	Jug3	Layer	Buyl	Paps	Coyes	forges	Gyas 1	Jacos	Preys
199Y1A0170	Prathyusha Yambadi	port	a	Real	Recel	Dreif	Pag	धि	Paul	Part	Reg	Pol	Roof	grey	Roof	Kal	BUT	Pol	Ru
199Y1A0172	Bramhini Yeddula	Brand	Ruf	Rout	Roof	fact	2 cul	Roof	Ruf	Brest	yest	book	2 sel	Rouf	Reed	Roul	fiel	Cour	But
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Pulled Coordinator

MOD Civil Engg.

Head
Department of Civil Engineering
K.S.R.M. College of Engineering
(Autonomous)
KADAPA 516 003. (A.P.)



(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India- 516 003 Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu DEPARTMENT OF CIVIL ENGINEERING



KSNR



Certificate Course on

Integrated Watershed Management

Resource person

rof. T Kiran Kumar

EVAPORATION ept. of Civil Engineering, KSRMCE



INFILTRATION TO GROUND WATER



25-03-2022

coordinators: Dr. P Kishore Kumar Reddy, D Viswanath



K.S.R.M. COLLEGE OF ENGINEERING (UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India- 516 003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

An ISO 14001:2004 & 9001: 2015 Certified Institution

Report

<u>of</u>

Certification Course on Integrated watershed management

From 25/03/22 to 18/05/22

Students **Target Group**

Details of Participants 47 Students :

Dr. T. Kiran Kumar Resource person :

Dr. P. Kishore Kumar Reddy Coordinator

Civil Engineering Organizing Department :

Offline (seminar hall) Venue :

Description:

The Department of Civil Engineering organized a certification course on "Integrated watershed management" from 25th March 2022 to 18th May 2022. The program is inaugurated by HOD civil engineering department and certification course in-charge Dr.

I. Srinivas Reddy. In this program Resource person Dr.T.Kiran Kumar, Coordinator,

coordinator, all the faculty members, registered participants are present. In the beginning the coordinator present a brief report, course coordinator explains the importance of certification course, head of the department address the gathering the Resource person explain the importance of integrated watershed management and its role in water resources management, and he present a detailed course structure. The course duration was 30 hours and the session on every day is from 4PM-6PM depends upon the student's classes and also the duration is extended from 20-04-2022 to 18=05-2022. In this course to create awareness and to gain

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practical knowledge arranged field visits for different irrigation structures, rain water harvesting structures, storage structures, cross drainage works, canal regulation works and also visited micro irrigation systems like drift and sprinklers the field visit supervised by irrigation engineers of veligallu reservoir, Dr. T.Kiran Kumar and Dr. Kishore Kumar. For this course coordinators: V. Chandrasekhar, D. Chennakeshava.

Co-coordinators: B.Suryanarayana, M.harashavardhan,R.Himabindu,rajeshreddy acted as a student co-coordinator. The necessity of integrated watershed management briefly as follows for stable and growing economy of drought prone and rainfed areas, proper and optimum utilization of natural resources namely land and water are must; particularly in the field of agriculture. It is well-known fact that large number of physical and chemical characteristics and hydrological behavior of soil are responsible for obtaining best production interaction between land and water resources.

In order to obtain maximum benefits from technological advancements, which constantly improve the output from per unit of soil and water, it is imperative to properly protect and judiciously utilize the natural resources of soil and water. The basic foundation upon which maximum efficiency of modern technology rests on the adoption of suitable soiland water conservation practices.

The main objective of each watershed development project is to achieve sustainable production of bio-mass and restoration of ecological balance in the drought prone and rainfed areas and improve the standard of livelihood of people. The specific objectives are:

- 1. Conservation, upgradation and utilization of natural endowments namely land, water and vegetation in harmonious and integrated manner;
- Generation of massive employment during the project period and regular employment after the project completion for enhancing the work opportunities in the backward rainfed area with a view to ensure livelihood security, particularly for the under-privileged sections of the rural population
- Improvement of production environment and restoration of ecological balance through scientific management of land and rain water, in-situ moisture conservation, introduction of scientific production system, creation of network of

- run-off management structures and devices for recharge of ground water and recycling for drinking purposes, domestic consumption and lifesaving irrigation;
- 4. To promote social forestry and horticulture activity on all suitable lands, and
- 5. To enhance cash available with farmers and landless agricultural laborers through increased casual employment, marketable surplus of agricultural and dairy produce.

Photo:

The pictures taken during the course are as follows:



Department of Unit Eng GPS Map KSRM COLLEGE ENGINEERING civil BLOCK, Andhra Pradesh 516003, India 14.4775165° Local 04:37:41 PM Infinix ZERO50



The validity function is conducted on 1/06/2022 .The head of the department ,the coordinators, faculty, student participants are attend the program ,coordinator, resource person HOD address the participants and student participants shared the feedback. Finally HOD distributed the certificates and the student coordinator present the vote of thanks.

Course Coordinator

HOD, Civil Engg.

Head Department of Civil Engineering K.S.R.M. College of Engineering (Autonomous) KADAPA 516 003. (A.P.)



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KSNR lives on

A certification course on

INTEGRATED WATERSHED MANAGEMENT

Tertificate of Participation

This is to certify that Mr./Ms. Some 5: down has participated in certification course on "INTEGRATED WATERSHED MANAGEMENT" conducted by Department of Civil Engineering during 25-03-2022 to 18-05-2022 (30 hours).

Resource Person: Prof. T. Kiran Kumar, CE, KSRMCE, Kadapa.

Dr. P. Kishore Kumar Reddy coordinator Dr. N Aparanatha Reddy Head of department Dr. V.S.S Murthy
Principle



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A certification course on INTEGRATED WATERSHED MANAGEMENT

Tertificate of Participation

This is to certify that Mr./Ms. Anugha Dhamed has participated in certification course on "INTEGRATED WATERSHED MANAGEMENT" conducted by Department of Civil Engineering during 25-03-2022 to 18-05-2022 (30 hours).

Resource Person: Prof. T. Kiran Kumar, CE, KSRMCE, Kadapa.

Dr. P. Kishore Kumar Reddy
coordinator

Dr. N Anyaranatha Reddy Head of department Dr. V.S.S Murthy

Principle



(AUTONOMOUS)

Kadapa, Andhra Pradesh, India-516003 Approved by AICTE, New Delhi and Affiliated to JNTU Ananthapuramu. An ISO 14001:2004 & 900`: 2015 Certified Institution.



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A certification course on

INTEGRATED WATERSHED MANAGEMENT

Tertificate of Participation

This is to certify that Mr./Ms. Chaitanya Kanta has participated in certification course on "INTEGRATED WATERSHED MANAGEMENT" conducted by Department of Civil Engineering during 25-03-2022 to 18-05-2022 (30 hours).

Resource Person: Prof. T. Kiran Kumar, CE, KSRMCE, Kadapa.

Dr. P. Kishore Kumar Reddy coordinator

Dr. N Amaranatha Reddy Head of department

Dr. V.S.S Murthy Principle

V. S. S. NWG



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A certification course on

INTEGRATED WATERSHED MANAGEMENT

Tertificate of Participation

This is to certify that Mr./Ms. Divya Range — has participated in certification course on "INTEGRATED WATERSHED MANAGEMENT" conducted by Department of Civil Engineering during 25-03-2022 to 18-05-2022 (30 hours).

Resource Person : Prof. T. Kiran Kumar, CE, KSRMCE, Kadapa.

Dr. P. Kishore Kumar Reddy
coordinator

Dr. N Amaranatha Reddy Head of department Dr. V.S.S Murthy
Principle

Feedback form for "Certification course on Integrated watershed management"

reddysrinu@ksrmce.ac.in Switch account Your email will be recorded when you submit this form * Required
Name of The Student * Your answer
Roll. No. * Your answer
Do you understand the Watershed concepts? * O Yes No
Are the lecture hours sufficient to cover the topic? * O Yes O No



Rate the course instructor * 1-Low, 5-High	
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May be	
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5 🔘	
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Department of Civil Engineering

Feedback of students on Certification Course on Integrated watershed management

SI.		Name of The Student	Do you understand the watershed concept?	Are the lecture hours are sufficient to cover the topic?	Rate the course instructor	Is this course useful for your Carrier?	Rate the entire course?
No. 1	Reg. No. 199Y1A0102	Name of The Student Sampurna Rani Bollavaram	Yes	Yes	5	Yes	5
2	199Y1A0103	Suryanarayana Byrisetty	Yes	Yes	5	Yes	4
3	199Y1A0106	Haritha Chinamadula	Yes	Yes	5	Yes	5
4	199Y1A0107	Arun Kumar Dantham	Yes	Yes	4	Yes	5
5	199Y1A0108	Anusha Dhamerla	Yes	Yes	4	Yes	4
6	199Y1A0109	Chennakeshava Dirasantha	Yes	Yes	5	Yes	5
8	199Y1A0115	Faheem Hachhulukatte	Yes	Yes	5	Yes	5
9	199Y1A0116	Venkata Sai Janapati	Yes	Yes	5	Yes	5
10	199Y1A0118	Chaitanya Kanta	Yes	Yes	4	Yes	5
11	199Y1A0119	Vekrishna Yadav Katuboina	Yes	Yes	4	May be	5
12	199Y1A0120	Kejiya Kola	Yes	Yes	5	Yes	5
13	199Y1A0122	Nagarathna Kumbhagiri	Yes	Yes	5	Yes	4
14	199Y1A0123	Veera Sai Kumar Reddy Lomati	Yes	Yes	5	Yes	5
15	199Y1A0127	Yagna Priya Moram	Yes	Yes	4	Yes	5
16	199Y1A0131	Harsha Vardhan Mundlapati	Yes	Yes	5	Yes	5
17	199Y1A0133	Venkata Siva Pagidi	Yes	Yes	3	Yes	4
18	199Y1A0141	Divya Ragi	Yes	Yes	5	Yes	5

19	199Y1A0143	Hima Bindu Ravella	Yes	Yes	5	Yes	5
20	199Y1A0145	Pavankumarreddy Salindra	Yes	Yes	5	Yes	5
21	199Y1A0147	Sudharshan Sandella	Yes	Yes	5	May be	5
21	199Y1A0159	Venkata Sai Pavan Sravanaboina	Yes	Yes	5	Yes	5
22	199Y1A0160	Rajesh Reddy Sreereddy	Yes	Yes	5	Yes	5
23	199Y1A0162	Mohammed Junaid Syed	Yes	Yes	5	Yes	5
24	199Y1A0164	Anil Kumar Reddy Thummala	Yes	Yes	5	Yes	5
25	199Y1A0167	Chandrasekhar Vadde	Yes	Yes	4	Yes	5
26	199Y1A0168	Shaik Fayaz Hussain Vanipenta	Yes	Yes	4	May be	4
27	199Y1A0170	Prathyusha Yambadi	Yes	Yes	5	Yes	5
28	199Y1A0172	Bramhini Yeddula	Yes	Yes	5	Yes	5
29	199Y1A0173	Palakondaiah Yeddulakondu	Yes	Yes	5	Yes	5
30	199Y1A0174	Mounika Yerragudipadu	Yes	Yes	5	Yes	5

Resource person

Popular Coordinator

HoD-CiviEngg.

Head

Department of Givil Engineering
K.S.R.M. College of Engineering
(Autonomous)

KADAPA 516 003. (A.P.)

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003 DEPARTMENT OF CIVIL ENGINEERING CERTIFICATE COURSE ON INTEGRATED WATERSHED MANAGEMENT MARKS AWARD LIST

S.No	Roll Number	Name of the Student	Marks Obtained
	199Y1A0102	Sampurna Rani	
1	19911A0102	Bollavaram	17
2	199Y1A0103	Suryanarayana Byrisetty	13
3	199Y1A0106	Haritha Chinamadula	16
4	199Y1A0107	Arun Kumar Dantham	10
5	199Y1A0108	Anusha Dhamerla	8
6	199Y1A0109	Chennakeshava Dirasantha	16
7	199Y1A0112	Suneel Giddaluru	10
8	199Y1A0115	Faheem Hachhulukatte	17
9	199Y1A0116	Venkata Sai Janapati	19
10	199Y1A0118	Chaitanya Kanta	15
11	199Y1A0119	Vekrishna Yadav Katuboina	13
12	199Y1A0120	Kejiya Kola	14
13	199Y1A0122	Nagarathna Kumbhagiri	12
14	199Y1A0123	Veera Sai Kumar Reddy Lomati	15
15	199Y1A0127	Yagna Priya Moram	18
16	199Y1A0131	Harsha Vardhan Mundlapati	19
17	199Y1A0133	Venkata Siva Pagidi	11
18	199Y1A0141	Divya Ragi	14
19	199Y1A0143	Hima Bindu Ravella	5
20	199Y1A0145	Pavankumarreddy Salindra	14
21	199Y1A0146	Mahammad Salivemula	17
22	199Y1A0147	Sudharshan Sandella	18
23	199Y1A0158	Kavitha Sirangi	16
1 4 6	199Y1A0159	Venkata Sai Pavan Sravanaboina	15
24	199Y1A0160	Rajesh Reddy Sreereddy	13
25	19911A0100	Rajesii Reddy Siccieddy	15

26	199Y1A0162	Mohammed Junaid Syed	10
27	199Y1A0164	Anil Kumar Reddy Thummala	8
28	199Y1A0167	Chandrasekhar Vadde	6
29	199Y1A0168	Shaik Fayaz Hussain Vanipenta	13
30	199Y1A0170	Prathyusha Yambadi	15
31	199Y1A0172	Bramhini Yeddula	10
32	199Y1A0173	Palakondaiah Yeddulakondu	16
33	199Y1A0174	Mounika Yerragudipadu	15
34	209Y5A0110	B.V. Harsha Vardhini	14
35	209Y5A0112	C.Upendra	7
36	209Y5A0123	G. V. Chandana	12
37	209Y5A0128	J.Kalinga	18
38	209Y5A0129	K.Guru vinod	14
39	209Y5A0134 209Y5A0131	K. Ramakrishna	11
40	209Y5A0131 209Y5A0164	Dharama teja P.Mohanbabu	17
41	209Y5A0164 209Y5A0167		13
42	209Y5A0167 209Y5A0172	R. Divya sree S. Mohammad Abbas	12
43	209Y5A0172 209Y5A0180	U. Vinod Kumar	16
44	189Y5A0119	C. Chandra Kanth	18
45	189Y5A0119	S.Mahammad Afridi	14
46	189Y5A0165	Shaik Mansoor	8
47	109 1 JAU103	SHAIK IVIAHSOOF	11

HoD Head

Department of Civil Engineering K.S.R.M. College of Engineering (Autonomous) KADAPA - 516 003. (A.P.)



K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003 DEPARTMENT OF CIVIL ENGINEERING CERTIFICATE COURSE ON INTEGRATED WATERSHED MANAGEMENT ASSESSMENT TEST

Name of the Student:	A. Dhanela	Reg. Number:	1994120106

(Objective Questions) Max. Marks: 20 Time: 20 Min Note: Answer the following Questions and each question carries one mark. What is a watershed? B) An area of land A) A type of water C) A type of dam used D) A method of that drains water for flood control irrigation treatment facility into a common point Why is integrated watershed management important? D) It regulates traffic C) It promotes urban B) It prevents soil A) It helps protect flow. erosion. development. marine life. Which of the following is a common goal of watershed management? 3 D) Sustaining water C) Maximizing soil A) Increasing water B) Reducing the resources for the recharge of aquifers erosion pollution future What is the primary source of water for most watersheds? 4 D) Rainfall and B) Underground C) Desalination plants A) Seawater surface runoff aquifers What is the primary function of a riparian buffer zone in watershed management? 5 B) To prevent C) To filter pollutants D) To store excess A) To promote access to water and reduce erosion water urban development bodies What is meant by the term "non-point source pollution" in the context of watershed management? C) Pollution B) Pollution A) Pollution 1.4 D) Pollution originating from originating from a originating from a originating from air diffuse sources, such

specific industrial single identifiable as agriculture and emissions facility source urban runoff Which agency or organization is responsible for enforcing water quality regulations in many countries? B) Environmental D) World Health C) World Bank A) United Nations Protection Agency Organization (WHO) (EPA) What is the purpose of a watershed assessment in integrated watershed management? 8 B) To identify and D) To promote A) To increase C) To maximize land prioritize deforestation development conservation and water pollution restoration efforts What is a Best Management Practice (BMP) in watershed management? D) A way to promote A) A method to B) A technique to C) A strategy or urbanization within a increase water maximize soil measure to reduce watershed non-point source

erosion

pollution

			pollution			
0	Which of the following is NOT a common BMP in watershed management?					
	A) Riparian buffer zones	B) Afforestation	C) Paved parking lots	D) Rainwater harvesting		
1	What is the primary	purpose of afforestation	in watershed managemen			
	A) To increase soil erosion	B) To promote urban development	C) To increase the availability of wood products	D) To reduce runoff and improve water quality	[17]	
2	What is the purpose	of a watershed model in	integrated watershed ma	nagement?		
	A) To create flood maps	B) To predict land use changes	C) To simulate hydrological processes and evaluate management scenarios	D) To design dams	[B]	
3	Which of the followi	ng is a key challenge in	integrated watershed man	nagement?		
	A) Encouraging deforestation	B) Balancing conflicting land uses and interests	C) Promoting non- sustainable agricultural practices	D) Overregulation of land development	B,	
4	What is the main goa	of soil conservation p	ractices in watershed man	agement?		
	A) To maximize soil erosion	B) To promote deforestation	C) To improve soil fertility	D) To prevent soil erosion and degradation	[0]	
5	What is a "sub-water	shed" in the context of	watershed management?	·		
	A) A small river	B) A region located downstream	C) A smaller area within a larger watershed	D) A watershed with no outlets	B	
6	Which of the followi	ng is an important princ	ciple of sustainable waters	hed management?		
	A) Maximizing non-sustainable land development	B) Encouraging pollution of water bodies	C) Balancing ecological, social, and economic factors	D) Ignoring the needs of local communities	(0)	
7	What is the main objust management?	ective of source water p	protection programs in inte	egrated watershed		
	A) To increase water pollution	B) To maximize land development	C) To protect the quality and quantity of drinking water sources	D) To promote deforestation		
8	What is the role of co	ommunity participation	in watershed management	t?		
	A) To hinder conservation efforts	B) To ensure that decisions reflect local knowledge and priorities	C) To maximize deforestation	D) To promote non- sustainable practices	IJ.	
9	Which of the following management?	ng is an example of a di	rect economic benefit of	watershed		
<u> </u>	A) Increased pollution	B) Reduced property values	C) Improved water quality for drinking and irrigation	D) Increased soil erosion		
.0	What is the primary pr	What is the primary purpose of monitoring and evaluation in integrated watershed				
*	A) To promote urban development	B) To increase water pollution	C) To assess the effectiveness of management activities and adapt as needed	D) To maximize deforestation	(C)	



K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003 DEPARTMENT OF CIVIL ENGINEERING CERTIFICATE COURSE ON INTEGRATED WATERSHED MANAGEMENT ASSESSMENT TEST

Name of the Student: B. Sampurna Reg. Number: 1994/1012

(Objective Questions) Max. Marks: 20 Time: 20 Min Note: Answer the following Questions and each question carries one mark. What is a watershed? B) An area of land D) A method of [B]C) A type of dam used A) A type of water that drains water treatment facility for flood control irrigation into a common point Why is integrated watershed management important? [8] D) It regulates traffic C) It promotes urban A) It helps protect B) It prevents soil flow. development. marine life. erosion. Which of the following is a common goal of watershed management? 3 D) Sustaining water [D] C) Maximizing soil A) Increasing water B) Reducing the resources for the pollution recharge of aquifers erosion future What is the primary source of water for most watersheds? D) Rainfall and [D]B) Underground C) Desalination plants A) Seawater surface runoff aquifers What is the primary function of a riparian buffer zone in watershed management? 5 B) To prevent D) To store excess [4 C) To filter pollutants A) To promote access to water and reduce erosion water urban development bodies What is meant by the term "non-point source pollution" in the context of watershed management? C) Pollution A) Pollution B) Pollution D) Pollution originating from originating from a originating from a originating from air diffuse sources, such specific industrial single identifiable emissions as agriculture and facility source urban runoff Which agency or organization is responsible for enforcing water quality regulations in many countries? [13] B) Environmental D) World Health Protection Agency C) World Bank A) United Nations Organization (WHO) (EPA) What is the purpose of a watershed assessment in integrated watershed management? 8 B) To identify and prioritize C) To maximize land D) To promote [R] A) To increase deforestation conservation and development water pollution restoration efforts What is a Best Management Practice (BMP) in watershed management? D) A way to promote B) A technique to C) A strategy or A) A method to urbanization within a maximize soil measure to reduce increase water watershed erosion non-point source pollution

pollution Which of the following is NOT a common BMP in watershed management? A) Riparian buffer D) Rainwater B) Afforestation C) Paved parking lots harvesting zones 11 What is the primary purpose of afforestation in watershed management? C) To increase the D) To reduce runoff A) To increase soil B) To promote availability of wood and improve water erosion urban development products quality What is the purpose of a watershed model in integrated watershed management? C) To simulate A) To create flood B) To predict land hydrological processes [D) To design dams maps use changes and evaluate management scenarios 13 Which of the following is a key challenge in integrated watershed management? B) Balancing C) Promoting non-A) Encouraging D) Overregulation of [3] conflicting land uses sustainable deforestation land development and interests agricultural practices 14 What is the main goal of soil conservation practices in watershed management? D) To prevent soil A) To maximize B) To promote C) To improve soil [0]erosion and soil erosion deforestation fertility degradation 15 What is a "sub-watershed" in the context of watershed management? C) A smaller area B) A region located D) A watershed with [4 A) A small river within a larger downstream no outlets watershed Which of the following is an important principle of sustainable watershed management? A) Maximizing B) Encouraging C) Balancing [0] D) Ignoring the needs non-sustainable pollution of water ecological, social, and of local communities land development bodies economic factors What is the main objective of source water protection programs in integrated watershed management? C) To protect the [4 A) To increase B) To maximize D) To promote quality and quantity of water pollution land development deforestation drinking water sources What is the role of community participation in watershed management? B) To ensure that A) To hinder decisions reflect C) To maximize D) To promote non-conservation efforts local knowledge and deforestation sustainable practices priorities Which of the following is an example of a direct economic benefit of watershed management? C) Improved water [0] A) Increased B) Reduced property D) Increased soil quality for drinking pollution values erosion and irrigation What is the primary purpose of monitoring and evaluation in integrated watershed management? C) To assess the [C]A) To promote B) To increase water effectiveness of D) To maximize urban development pollution management activities deforestation and adapt as needed

(20)

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003 DEPARTMENT OF CIVIL ENGINEERING CERTIFICATE COURSE ON INTEGRATED WATERSHED MANAGEMENT ASSESSMENT TEST

Name of the Student: D. Any Kaman Reg. Number: 199 41A0107

<u>Time: 20 Min</u> (Objective Questions) Max. Marks: 20 Note: Answer the following Ouestions and each question carries one mark.

No ⁻	What is a watershed?				
	A) A type of water treatment facility	B) An area of land that drains water into a common point	C) A type of dam used for flood control	D) A method of irrigation	[3]
2	Why is integrated wa	tershed management in	nportant?		
	A) It helps protect marine life.	B) It prevents soil erosion.	C) It promotes urban development.	D) It regulates traffic flow.	B
3	Which of the followi	ng is a common goal of	watershed management?		
,	A) Increasing water pollution	B) Reducing the recharge of aquifers	C) Maximizing soil erosion	D) Sustaining water resources for the future	P)
1	What is the primary	source of water for mos	t watersheds?		0
	A) Seawater	B) Underground aquifers	C) Desalination plants	D) Rainfall and surface runoff	M
5	What is the primary:	function of a riparian bu	iffer zone in watershed ma	anagement?	
	A) To promote urban development	B) To prevent access to water bodies	C) To filter pollutants and reduce erosion	D) To store excess water	
6	What is meant by the management?	e term "non-point source	e pollution" in the context	of watershed	
0	A) Pollution originating from a single identifiable source	B) Pollution originating from a specific industrial facility	C) Pollution originating from diffuse sources, such as agriculture and urban runoff	D) Pollution originating from air emissions	
7	Which agency or org countries?	ganization is responsible	e for enforcing water qual	ity regulations in many	- 1-
	A) United Nations	B) Environmental Protection Agency (EPA)	C) World Bank	D) World Health Organization (WHO)	A
8	What is the purpose	of a watershed assessm	ent in integrated watershe	d management?	
	A) To increase water pollution	B) To identify and prioritize conservation and restoration efforts	C) To maximize land development	D) To promote deforestation	ιAι
9	What is a Best Mana	agement Practice (BMP) in watershed manageme	nt?	
	A) A method to increase water	B) A technique to maximize soil	C) A strategy or measure to reduce	D) A way to promote urbanization within a	[A]

			pollution]
10	Which of the followi	ng is NOT a common B	BMP in watershed manage	ement?		
	A) Riparian buffer zones	B) Afforestation	C) Paved parking lots	D) Rainwater harvesting	[0]	
11	What is the primary	purpose of afforestation	in watershed managemer			
	A) To increase soil erosion	B) To promote urban development	C) To increase the availability of wood products	D) To reduce runoff and improve water quality	IR	
12	What is the purpose of	of a watershed model in	integrated watershed man	nagement?		
	A) To create flood maps	B) To predict land use changes	C) To simulate hydrological processes and evaluate management scenarios	D) To design dams	0	
13	Which of the following	ng is a key challenge in	integrated watershed man	nagement?		
(A) Encouraging deforestation	B) Balancing conflicting land uses and interests	C) Promoting non- sustainable agricultural practices	D) Overregulation of land development	Ą	
14	What is the main goa	l of soil conservation pr	ractices in watershed man	agement?		
,	A) To maximize soil erosion	B) To promote deforestation	C) To improve soil fertility	D) To prevent soil erosion and degradation	[A]	~
15	What is a "sub-water	shed" in the context of	watershed management?			
	A) A small river	B) A region located downstream	C) A smaller area within a larger watershed	D) A watershed with no outlets		
16	Which of the following	ng is an important princ	iple of sustainable waters	hed management?		/
	A) Maximizing non-sustainable land development	B) Encouraging pollution of water bodies	C) Balancing ecological, social, and economic factors	D) Ignoring the needs of local communities	[Q.	
17	What is the main object management?	ective of source water p	rotection programs in inte	egrated watershed		
	A) To increase water pollution	B) To maximize land development	C) To protect the quality and quantity of drinking water sources	D) To promote deforestation	[/]=	<
18	What is the role of co	mmunity participation	in watershed management	t?		
J.	A) To hinder conservation efforts	B) To ensure that decisions reflect local knowledge and priorities	C) To maximize deforestation	D) To promote non- sustainable practices	B	
19	Which of the following management?		rect economic benefit of	watershed	4	
1	A) Increased pollution	B) Reduced property values	C) Improved water quality for drinking and irrigation	D) Increased soil erosion	[A]	
20	What is the primary pmanagement?	ourpose of monitoring a	nd evaluation in integrate	d watershed	7	
<i>\$</i>	A) To promote urban development	B) To increase water pollution	C) To assess the effectiveness of management activities and adapt as needed	D) To maximize deforestation	ιΑί ^ν	



watershed

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003 DEPARTMENT OF CIVIL ENGINEERING CERTIFICATE COURSE ON INTEGRATED WATERSHED MANAGEMENT ASSESSMENT TEST

Na	me of the Student: _	C. Havitha	Reg. Num	ber: 19941A0/06	>
Tir	ne: 20 Min	(Object	ive Questions)	Max. Mark	s: 20
No	te: Answer the follow	ving Questions and ea	ch question carries one		
10	What is a watershed?				
	A) A type of water treatment facility	B) An area of land that drains water into a common point	C) A type of dam used for flood control	D) A method of irrigation	[B]
2	Why is integrated wa	tershed management im	portant?		
	A) It helps protect marine life.	B) It prevents soil erosion.	C) It promotes urban development.	D) It regulates traffic flow.	
3	Which of the following	ng is a common goal of	watershed management?		
(A) Increasing water pollution	B) Reducing the recharge of aquifers	C) Maximizing soil erosion	D) Sustaining water resources for the future	YD.
4	What is the primary s	source of water for mos	t watersheds?		
	A) Seawater	B) Underground aquifers	C) Desalination plants	D) Rainfall and surface runoff	18.
5	What is the primary	function of a riparian bu	iffer zone in watershed m	anagement?	
	A) To promote urban development	B) To prevent access to water bodies	C) To filter pollutants and reduce erosion	D) To store excess water	
5	What is meant by the management?		e pollution" in the context	of watershed	
	A) Pollution originating from a single identifiable source	B) Pollution originating from a specific industrial facility	C) Pollution originating from diffuse sources, such as agriculture and urban runoff	D) Pollution originating from air emissions	18
7	Which agency or org countries?		e for enforcing water qual	ity regulations in many	
	A) United Nations	B) Environmental Protection Agency (EPA)	C) World Bank	D) World Health Organization (WHO)	193
8	What is the purpose		ent in integrated watershe	d management?	
	A) To increase water pollution	B) To identify and prioritize conservation and restoration efforts	C) To maximize land development	D) To promote deforestation	[0
9	What is a Best Mana) in watershed manageme	nt?	
	A) A method to increase water	B) A technique to maximize soil	C) A strategy or measure to reduce	D) A way to promote urbanization within a	se

non-point source

pollution

erosion

			pollution		
0		ng is NOT a common E	MP in watershed manage		,
	A) Riparian buffer zones	B) Afforestation	C) Paved parking lots	D) Rainwater harvesting	Id
1	What is the primary	purpose of afforestation	in watershed managemen	nt?	/
	A) To increase soil erosion	B) To promote urban development	C) To increase the availability of wood products	D) To reduce runoff and improve water quality	[ŋ]
2	What is the purpose	of a watershed model in	integrated watershed man	nagement?	
	A) To create flood maps	B) To predict land use changes	C) To simulate hydrological processes and evaluate management scenarios	D) To design dams	(c)
3	Which of the followi	ng is a key challenge in	integrated watershed man	nagement?	/
Ş	A) Encouraging deforestation	B) Balancing conflicting land uses and interests	C) Promoting non- sustainable agricultural practices	D) Overregulation of land development	IDI
4	What is the main goa	al of soil conservation p	ractices in watershed man		
7	A) To maximize soil erosion	B) To promote deforestation	C) To improve soil fertility	D) To prevent soil erosion and degradation	10
15	What is a "sub-water	shed" in the context of	watershed management?		
	A) A small river	B) A region located downstream	C) A smaller area within a larger watershed	D) A watershed with no outlets	ta
6	Which of the followi	ng is an important princ	ciple of sustainable waters	shed management?	
4	A) Maximizing non-sustainable land development	B) Encouraging pollution of water bodies	C) Balancing ecological, social, and economic factors	D) Ignoring the needs of local communities	161
7	What is the main objust management?	ective of source water p	rotection programs in inte	egrated watershed	/
	A) To increase water pollution	B) To maximize land development	C) To protect the quality and quantity of drinking water sources	D) To promote deforestation	6
8	What is the role of co		in watershed managemen	t?	
	A) To hinder conservation efforts	B) To ensure that decisions reflect local knowledge and priorities	C) To maximize deforestation	D) To promote non- sustainable practices	[p]
19	Which of the following management?	ng is an example of a di	rect economic benefit of	watershed	/
	A) Increased pollution	B) Reduced property values	C) Improved water quality for drinking and irrigation	D) Increased soil — erosion	19
20	What is the primary pr	ourpose of monitoring a	nd evaluation in integrate	d watershed	
)	A) To promote urban development	B) To increase water pollution	C) To assess the effectiveness of management activities and adapt as needed	D) To maximize deforestation	[3]

13

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003 DEPARTMENT OF CIVIL ENGINEERING CERTIFICATE COURSE ON INTEGRATED WATERSHED MANAGEMENT

ASSESSMENT TEST

Name of the Student: B. Surya navayana . Reg. Number: 1994 1 A 0 10 3

Max. Marks: 20 (Objective Questions) Time: 20 Min Note: Answer the following Questions and each question carries one mark. What is a watershed? B) An area of land D) A method of A) A type of water C) A type of dam used that drains water treatment facility for flood control irrigation into a common point Why is integrated watershed management important? C) It promotes urban D) It regulates traffic B) It prevents soil A) It helps protect development. flow. marine life. erosion. Which of the following is a common goal of watershed management? 3 D) Sustaining water C) Maximizing soil B) Reducing the A) Increasing water resources for the recharge of aquifers erosion pollution future What is the primary source of water for most watersheds? D) Rainfall and B) Underground C) Desalination plants A) Seawater surface runoff aquifers What is the primary function of a riparian buffer zone in watershed management? 5 B) To prevent D) To store excess C) To filter pollutants A) To promote access to water and reduce erosion water urban development bodies What is meant by the term "non-point source pollution" in the context of watershed management? C) Pollution B) Pollution A) Pollution D) Pollution originating from originating from a originating from a originating from air diffuse sources, such single identifiable specific industrial emissions as agriculture and facility source urban runoff Which agency or organization is responsible for enforcing water quality regulations in many countries? R B) Environmental D) World Health C) World Bank A) United Nations Protection Agency Organization (WHO) (EPA) What is the purpose of a watershed assessment in integrated watershed management? 8 B) To identify and [14 D) To promote C) To maximize land A) To increase prioritize deforestation conservation and development water pollution restoration efforts What is a Best Management Practice (BMP) in watershed management? D) A way to promote B) A technique to C) A strategy or A) A method to measure to reduce urbanization within a maximize soil increase water watershed non-point source pollution erosion

			pollution		
10		ng is NOT a common B	MP in watershed manage		0
	A) Riparian buffer zones	B) Afforestation	C) Paved parking lots	D) Rainwater harvesting	
11	What is the primary	purpose of afforestation	in watershed managemer	nt?	
	A) To increase soil erosion	B) To promote urban development	C) To increase the availability of wood products	D) To reduce runoff and improve water quality	<u>I</u> D
12	What is the purpose	of a watershed model in	integrated watershed man	nagement?	
51	A) To create flood maps	B) To predict land use changes	C) To simulate hydrological processes and evaluate management scenarios	D) To design dams	[C]
13	Which of the followi	ng is a key challenge in	integrated watershed man	nagement?	
	A) Encouraging deforestation	B) Balancing conflicting land uses and interests	C) Promoting non- sustainable agricultural practices	D) Overregulation of land development	
14	What is the main goa	l of soil conservation pr	ractices in watershed man		
	A) To maximize soil erosion	B) To promote deforestation	C) To improve soil fertility	D) To prevent soil erosion and degradation	[(1)
15	What is a "sub-water	shed" in the context of	watershed management?		
<	A) A small river	B) A region located downstream	C) A smaller area within a larger watershed	D) A watershed with no outlets	IA
16	Which of the followi	ng is an important princ	riple of sustainable waters	hed management?	
	A) Maximizing non-sustainable land development	B) Encouraging pollution of water bodies	C) Balancing ecological, social, and economic factors	D) Ignoring the needs of local communities	[A]
17	What is the main objust management?	ective of source water p	rotection programs in inte	egrated watershed	0
	A) To increase water pollution	B) To maximize land development	C) To protect the quality and quantity of drinking water sources	D) To promote deforestation	
18	What is the role of co	mmunity participation	in watershed management	t?	
	A) To hinder conservation efforts	B) To ensure that decisions reflect local knowledge and priorities	C) To maximize deforestation	D) To promote non- sustainable practices	ŧAT
19	Which of the following management?		rect economic benefit of	watershed	
S	A) Increased pollution	B) Reduced property values	C) Improved water quality for drinking and irrigation	D) Increased soil erosion	HAT
20	What is the primary purpose of monitoring and evaluation in integrated watershed management?				
	A) To promote urban development	B) To increase water pollution	C) To assess the effectiveness of management activities and adapt as needed	D) To maximize deforestation	A

WATERSHED Development ...

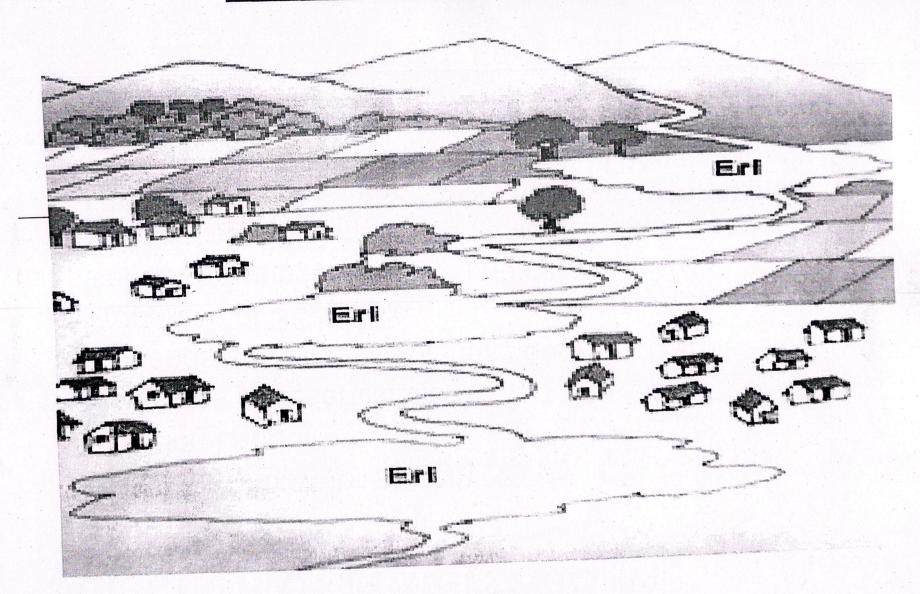
Parameters of Watershed

- Size
- Shape
- Physiography
- Climate
- Drainage
- Land use
- Vegetation
- Geology and Soils
- Hydrology
- Hydrogeology
- Socioeconomics

Definition

- A dynamic hydro geographical unit
- A Basin / Catchment area of Water outlet / stream

WATERSHED MODEL



Selection of Watershed (V)

- Depletion of Ground Water
- Acute Drinking water scarcity
- Migration Labour
- Symptoms of desertification
- Preponderance of Wastelands / degraded lands
- Proportion of SCs / STs
- Not covered under assured irrigation
- Willingness of Villages community to make voluntary contributions, to enforce social regulations for sharing CPRs to make equitable distribution of benefits ready to maintain assets created.

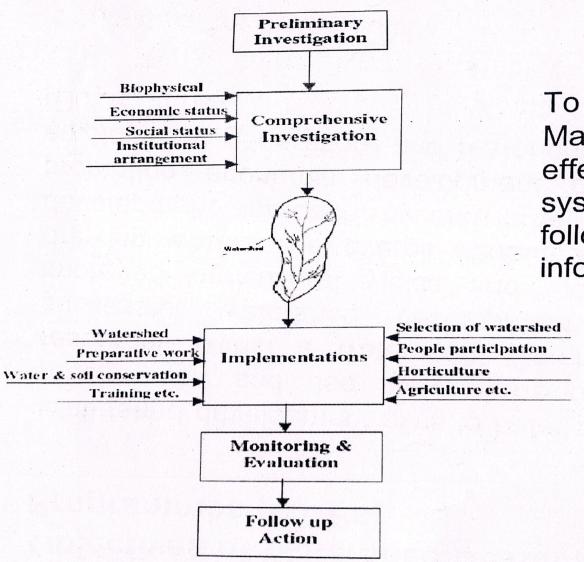
Objectives of Watershed Development Programmes (WDPs)



Watershed development aims to balance the conservation, regeneration and use by humans of land and water resources within a watershed. Common benefits from successful watershed development projects include improved agricultural yields and increased access to drinking water. The overall attributes of the watershed development approach, by and large, are three fold, viz. promoting economic development of the rural area, employment generation, and restoring ecological balance (DoLR, 2006).

STEPS IN WATERSHED MANAGEMENT





To carry any Watershed Management project effectively and in a systematic way, the following basic information is needed.

Watershed Development Programmes (WDPs)



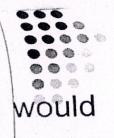
Watershed Development Programmes (WDPs) are among the very important programmes placed under the purview of Department of Land Resources (DoLR), Ministry of Rural Development (MoRD). Three important schemes namely, IWDP, DPAP, and DDP are widely implemented by the State Governments with due priority. The DoLR has been committed in updating guidelines for these schemes with periodic inputs from Research Organizations, Voluntary Organizations, Technical Committees, Workshops and Seminars amongst others. Especially, the inputs from the C.H. Hanumantha Rao Committee and Parthasarathy Committee are quite popular.

components of viateranea peveropment

Programme

The components of watershed development programme would include;

- soil and land management
- water management
- crop management
- afforestation
- pasture or fodder development
-)livestock management
- rural energy management
- other farm and non-farm activities
- and development of community skills and resources.
- All these components are interdependent and interactive.



Need for Hydraulic structures in Watersheds



- Conserving Soil and Water
- Improving ability of land to hold the water
- Rainwater harvesting
- Groundwater Recharge
- To control the erosion
- To improve the soil moisture holding capacity
- Converting degraded agriculture lands and waste lands into productive and high yielding lands.

PURPOSE AND EFFECTS OF AREA TREATMENT



TREATMENT MEASURE	PURPOSE	EFFECT
Develop vegetative cover on the non-arable land	Reduce impact of raindrops on soil	Minimum disturbance and displacement of soil particles
Apply water infiltration measures on the area	Infiltration of water where it falls	In-situ soil and moisture conservation
Store the surplus rain water by constructing bunds, ponds in the area	Minimum surface runoff	Increased soil/moisture in area; ground water recharging
Treat the upper catchment first and then proceed towards the outlet of watershed	Ridge to valley sequencing	Economic designs, less risk of damage and longer lives of structures of lower catchments if upper has been treated before

Different types of Hydraulic Structures

1. Hydraulic Structures for Area Treatment

This covers treatments for converting degraded agricultural lands and wastelands into productive and high-yielding lands. This is achieved by soil and water conservation as well as optimum use of trees and crops.

2. Hydraulic Structures for Drainage Line Treatment

Drainage lines are the natural water carriers. In the watershed development programme drainage lines are treated by putting the artificial barriers across the courses to check soil erosion, recharge the ground water and to store the water.



TREATMENT MEASURE	PURPOSE	EFFECT	
Plug the gullies since their beginning	Stops further deepening of gullies, Retains sediments of runoff.	Stops erosion. Ground water recharge at upper reaches.	
Create series of temporary barriers in the nallas which are unfit for water storage tanks.	Reduces runoff velocity. Sedimentation in the nallas, hence passes cleaner water to the downstream side.	Delayed flow periods. Ground water recharge.	
Treat the catchment of all types of structures before constructing them.	Minimum sedimentation in the storage basins. Less runoff and its velocity.	Economic design. Longer life. Less risk of damage.	
Use local material and local skills for constructing the structures.	Lower costs of construction. Quality outputs due to local people's involvement.	Structures maintained locally.	